Original (for SUBMISSION)

0	For receiving Office use only	*
0-1	International Application No.	
0-2	International Filing Date	·
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form PCT/RO/101 PCT Request	
0-4-1	Prepared Using	PCT-SAFE [EASY mode] Version 3.50 (Build 0002.163)
0-5	Petition	
	The undersigned requests that the present international application be processed according to the Patent	
	Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	United Kingdom Patent Office (RO/GB)
0-6	Receiving Office (specified by the	XA1822
	Receiving Office (specified by the applicant)	
0-7	Receiving Office (specified by the applicant) Applicant's or agent's file reference	XA1822
0-7	Receiving Office (specified by the applicant) Applicant's or agent's file reference Title of Invention	XA1822
0-7 1	Receiving Office (specified by the applicant) Applicant's or agent's file reference Title of Invention Applicant	XA1822 DETECTION OF AN ELECTROMAGNETIC SIGNAL
] -1	Receiving Office (specified by the applicant) Applicant's or agent's file reference Title of Invention Applicant This person is	XA1822 DETECTION OF AN ELECTROMAGNETIC SIGNAL applicant only
0-7 1 II II-1 II-2	Receiving Office (specified by the applicant) Applicant's or agent's file reference Title of Invention Applicant This person is Applicant for	XA1822 DETECTION OF AN ELECTROMAGNETIC SIGNAL applicant only all designated States except US
0-7 I II II-1 II-2 II-4	Receiving Office (specified by the applicant) Applicant's or agent's file reference Title of Invention Applicant This person is Applicant for Name	XA1822 DETECTION OF AN ELECTROMAGNETIC SIGNAL applicant only all designated States except US MBDA UK LIMITED Six Hills Way Stevenage Hertfordshire SG1 2DA
0-7 1 II II-1 II-2 II-4 II-5	Receiving Office (specified by the applicant) Applicant's or agent's file reference Title of Invention Applicant This person is Applicant for Name Address	XA1822 DETECTION OF AN ELECTROMAGNETIC SIGNAL applicant only all designated States except US MBDA UK LIMITED Six Hills Way Stevenage Hertfordshire SG1 2DA United Kingdom
0-7 1 II II-1 II-2 II-4 II-5	Receiving Office (specified by the applicant) Applicant's or agent's file reference Title of Invention Applicant This person is Applicant for Name Address State of nationality	XA1822 DETECTION OF AN ELECTROMAGNETIC SIGNAL applicant only all designated States except US MBDA UK LIMITED Six Hills Way Stevenage Hertfordshire SG1 2DA United Kingdom GB

Original (for SUBMISSION)

	[T
III-1	Applicant and/or inventor	
III-1-1	This person is	applicant and inventor
111-1-2	Applicant for	US only
III-1 -4	Name (LAST, First)	JENNINGS, Martin Robert
III-1-5	Address	MBDA UK Limited
		PO Box 5
	·	Filton
	·	Bristol
		Avon
		BS34 7QW
	Out of the state of the	United Kingdom
III-1 <i>-</i> 6	State of nationality	GB ·
III-1-7	State of residence	GB
111-2	Applicant and/or inventor	
III-2-1	This person is	applicant and inventor
111-2-2	Applicant for	US only
111-2-4	Name (LAST, First)	RICHARDS, Thomas John
III - 2-5	Address	MBDA Italia SpA
		N 0.3.210 Via Tiburtina Km 12400 00131
		Roma
	·	00131 Roma Rome
• :		Italy
111-2-6	State of nationality	GB
111-2-7	State of residence	IT
IV-1	Agent or common representative; or address for correspondence	
	The person identified below is hereby/ has been appointed to act on behalf of	agent
	the applicant(s) before the competent International Authorities as:	
IV-1-1	Name (LAST, First)	LEWIS, Debra Louise
IV-1-2	Address	BAE SYSTEMS plc
		Group IP Department
		Lancaster House, P.O. Box 87,
		Farnborough Aerospace Centre
		Farnborough
		Hampshire
		GU14 6YU
	Talanhana Na	United Kingdom
IV-1-3	Telephone No.	+44 (0) 1252 384633
IV-1-4	Facsimile No.	+44 (0) 1252 383091

Original (for SUBMISSION)

IV-2	Additional agent(s)	agent
IV-2+1	Name (LAST, First)	MACLEAN, Martin David
IV-2-2	Address	BAE SYSTEMS plc
,	•	Group IP Department
		Lancaster House, P.O. Box 87,
	· ·	Farnborough Aerospace Centre
		Farnborough
		Hampshire
		GU14 6YU
		United Kingdom
IV-2-3	Telephone No.	+44 (0) 1252 383430
IV-2-4	Facsimile No.	+44 (0) 1252 383091
IV-2-5	e-mail	
IV-2-6	Agent's registration No.	
IV-3	Additional agent(s)	agent
IV-3-1	Name (LAST, First)	MACKETT, Margaret Dawn
IV-3-2	Address	BAE SYSTEMS plc
	·	Group IP Department
	1	Lancaster House, P.O. Box 87,
		Farnborough Aerospace Centre
		Farnborough
		Hampshire
		GU14 6YU
		United Kingdom
IV-3-3	Telephone No.	+44 (0) 1252 383430
IV-3-4	Facsimile No.	+44 (0) 1252 383091
IV-3-5	e-mail	
IV-3-6 IV-4	Agent's registration No. Additional agent(s)	
		agent
IV-4-1	Name (LAST, First)	EDIS, Ronald Malcolm
IV-4-2	Address	BAE SYSTEMS plc
		Group IP Department
	*	Lancaster House, P.O. Box 87,
		Farnborough Aerospace Centre
		Farnborough
.7		Hampshire GU14 6YU
٠.		United Kingdom
IV-4-3	Telephone No.	+44 (0) 1252 383430
IV-4-4	Facsimile No.	+44 (0) 1252 383091
IV-4-5	e-mail	
IV-4-5 IV-4-6	Agent's registration No.	·

Original (for SUBMISSION)

IV-5	Additional agent(s)	agent			
IV-5-1	Name (LAST, First)	EASTMOND, John			
IV-5-2	Address	BAE SYSTEMS plc			
		Group IP Department		•	
		Lancaster House, P.O.			
	·	Farnborough Aerospace	Centre	•	
		Farnborough			•
		Hampshire			
	*	GU14 6YU United Kingdom			
	<u></u>				
IV-5-3	Telephone No.	+44 (0) 1252 383430		•	
IV-5-4	Facsimile No.	+44 (0) 1252 383091		•.	
IV-5 - 5	e-mail				
IV-5-6	Agent's registration No.				
IV-6	Additional agent(s)	agent			
IV-6-1	Name (LAST, First)	ROONEY, Paul Blaise			
IV-6-2	Address .	BAE SYSTEMS plc		.**	
	•	Group IP Department	Des. 97		
		Lancaster House, P.O. Farnborough Aerospace			
		Farnborough Relospace	Centre		
		Hampshire			
		GU14 6YU			
		United Kingdom			
IV-6-3	Telephone No.	+44 (0) 1252 383430		,	
IV-6-4	Facsimile No.	+44 (0) 1252 383091	٠,		
IV-6-5	e-mail		•		
IV-6-6	Agent's registration No.			· ·	
IV-7	Additional agent(s)	agent			• •
IV-7-1	Name (LAST, First)	WOJCIK, Lucy Eleanor			
IV-7-2	Address .	BAE SYSTEMS plc			
٠	·	Group IP Department	- 0=	•	-
	·	Lancaster House, P.O.			
_		Farnborough Aerospace	Centre		
		Farnborough Hampshire			
		GU14 6YU			
		United Kingdom			
IV-7-3	Telephone No.	+44 (0) 1252 383430			
IV-7-4	Facsimile No.	+44 (0) 1252 383091			
IV-7-5	e-mail				
IV-7-6	Agent's registration No.				
					•

Original (for SUBMISSION)

IV-8	Additional agent(s)	agent	
IV-8-1	Name (LAST, First)	MUKHERJEE, Aniruddha	,
IV-8-2	Address	BAE SYSTEMS plc	•
		Group IP Department	
	·	Lancaster House, P.O. Box 87,	
		Farnborough Aerospace Centre	
	·	Farnborough	
		Hampshire	
		GU14 6YU	
		United Kingdom	•
IV-8-3	Telephone No.	+44 (0) 1252 383430	. 0
IV-8-4	Facsimile No.	+44 (0) 1252 383091	
IV-8-5	e-mail		•
IV-8-6	Agent's registration No.		
IV-9	Additional agent(s)	agent	
IV-9-1	Name (LAST, First)	WILDMAN, David Brian	
IV-9-2	Address	BAE SYSTEMS plc	
		Group IP Department	•
	†	Lancaster House, P.O. Box 87,	
		Farnborough Aerospace Centre	
		Farnborough	
• . • • ·	•	Hampshire	
	ť	GU14 6YU	
		United Kingdom	
IV-9-3	Telephone No.	+44 (0) 1252 383430	
· IV-9-4	Facsimile No.	+44 (0) 1252 383091	
IV-9-5	e-mail		
IV-9-6	Agent's registration No.	~	
V	DESIGNATIONS		·
.V-1	The filing of this request constitutes under Rule 4.9(a), the designation of		
	all Contracting States bound by the		
•	PCT on the international filing date,		
	for the grant of every kind of protection available and, where		•
	applicable, for the grant of both		•
	regional and national patents.		
VI-1	Priority claim of earlier national application		
Vi-1-1	Filing date	05 November 2003 (05.11.2003)	
VI-1-2	Number	0325785.4	
VI-1-3	Country	GB	
	<u></u>		

Original (for SUBMISSION)

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as tem(s): VIII-1 International Searching Authority Chosen VIII-1 Declarations VIII-1 Declaration as to the identity of the inventor VIII-2 Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent VIII-3 Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application VIII-4 Declaration of inventorship (only for the purposes of the designation of the United States of America) VIII-5 Declaration as to non-prejudicial disclosures or exceptions to lack of novelty X Check list Request (including declaration sheets) Total Claims 4 Abstract Drawings 3 - TOTAL 25 Accompanying Items Pec acloulation sheet Fee calculation sheet Fee calculation sheet Fee calculation sheet Fee calculation sheet IX-1 Figure of the drawings which should accompany the abstract IX-1 Figure of the drawings which should applicanty applicanty application IX-20 Language of filing of the international applicant, agent or common representative	VI-2	Priority document request		
item(s): International Searching Authority European Patent Office (EPO) (ISA/EP)		prepare and transmit to the International Bureau a certified copy of the earlier	vi-1	
VIII	•			· ·
VIII-1 Declaration as to the identity of the inventor VIII-2 Declaration as to the applicant's entitlement, as at the international filling date, to apply for and be granted a patient VIII-3 Declaration as to the applicant's entitlement, as at the international filling date, to claim the priority of the earlier application VIII-4 Declaration of inventorship (only for the purposes of the designation of the United States of America) VIII-5 Declaration as to non-prejudicial disclosures or exceptions to lack of novelty IX Check list number of sheets electronic file(s) attached IX-1 Request (including declaration sheets) 7	VII-1	International Searching Authority	European Patent Offic	e (EPO) (ISA/EP)
Inventor Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	VIII		Number of declarations	
entitlement, as at the international filing date, to apply for and be granted a patent VIII-3 Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application VIII-4 UNII-5 Declaration of inventorship (only for the purposes of the designation of the United States of America) VIII-5 Declaration as to non-prejudicial disclosures or exceptions to lack of novelty IX Check list number of sheets electronic file(s) attached IX-1 Request (including declaration sheets) 7 ✓ IX-2 Description 10 - IX-3 Claims 4 - IX-4 Abstract 1 ✓ TOTAL 25 Accompanying Items paper document(s) attached electronic file(s) attached Fee calculation sheet ✓ Copy of general power of attorney ✓ PCT-SAFE physical media IX-19 Figure of the drawings which should accompany the abstract IX-20 Language of filing of the international application English Stignature of applicant, agent or common representative	VIII-1			
entitlement, as at the international filling date, to claim the priority of the earlier application VIII-4 Declaration of inventorship (only for the purposes of the designation of the United States of America) VIII-5 Declaration as to non-prejudical disclosures or exceptions to lack of novelty IX Check list number of sheets electronic file(s) attached IX-1 Request (including declaration sheets) IX-2 Description IX-3 Claims IX-4 Abstract IX-5 Drawings IX-7 TOTAL Accompanying Items paper document(s) attached IX-8 Fee calculation sheet IX-11 Copy of general power of attorney IX-18 other IX-19 Figure of the drawings which should accompany the abstract IX-10 Signature of applicant, agent or common representative	VIII-2	entitlement, as at the international filing date, to apply for and be granted a	-	
purposes of the designation of the United States of America) VIII-5 Declaration as to non-prejudicial disclosures or exceptions to lack of novelty IX Check list number of sheets electronic file(s) attached IX-1 Request (including declaration sheets) 7 IX-2 Description 10 - IX-3 Claims 4 - IX-4 Abstract 1 IX-5 Drawings 3 - IX-7 TOTAL 25 Accompanying Items paper document(s) attached electronic file(s) attached IX-8 Fee calculation sheet IX-11 Copy of general power of attorney IX-12 IX-13 Figure of the drawings which should accompany the abstract IX-20 Language of filing of the international application IX-10 Signature of applicant, agent or common representative	VIII-3	entitlement, as at the international filing date, to claim the priority of the earlier	*	
disclosures or exceptions to lack of novelty IX Check list number of sheets electronic file(s) attached IX-1 Request (including declaration sheets) 7	VIII-4	purposes of the designation of the	-	
IX-1 Request (including declaration sheets) 7	VIII-5	disclosures or exceptions to lack of	-	
IX-2 Description IX-3 Claims IX-4 Abstract IX-5 Drawings IX-7 TOTAL Accompanying items Fee calculation sheet IX-8 Fee calculation sheet IX-11 Copy of general power of attomey IX-17 PCT-SAFE physical media IX-18 other IX-18 other IX-19 Figure of the drawings which should accompany the abstract IX-10 Language of filing of the international application X-1 Signature of applicant, agent or common representative	IX		<u></u>	electronic file(s) attached
IX-3 Claims IX-4 Abstract IX-5 Drawings IX-7 TOTAL Accompanying Items Fee calculation sheet IX-8 Fee calculation sheet IX-11 Copy of general power of attorney IX-17 PCT-SAFE physical media IX-18 other IX-18 of the drawings which should accompany the abstract IX-10 Language of filing of the international application IX-10 Signature of applicant, agent or common representative	IX-1	Request (including declaration sheets)	7	
IX-4 Abstract IX-5 Drawings IX-7 TOTAL Accompanying Items IX-8 Fee calculation sheet IX-11 Copy of general power of attorney IX-17 PCT-SAFE physical media IX-18 other IX-19 Figure of the drawings which should accompany the abstract IX-10 Language of filing of the international application IX-11 Signature of applicant, agent or common representative	1X-2	Description	10	<u> </u>
IX-5 Drawings 3 - IX-7 TOTAL 25 Accompanying Items paper document(s) attached electronic file(s) attached IX-8 Fee calculation sheet	IX-3	Claims	4	· .
Accompanying Items paper document(s) attached electronic file(s) attached IX-8 Fee calculation sheet	IX-4	Abstract	1	
Accompanying Items paper document(s) attached electronic file(s) attached IX-8 Fee calculation sheet	IX-5.	Drawings	3	<u> </u>
IX-8 Fee calculation sheet IX-11 Copy of general power of attorney IX-17 PCT-SAFE physical media IX-18 Other IX-19 Figure of the drawings which should accompany the abstract IX-20 Language of filing of the international application X-1 Signature of applicant, agent or common representative	IX-7	TOTAL	25	
IX-8 Fee calculation sheet IX-11 Copy of general power of attorney IX-17 PCT-SAFE physical media IX-18 other IX-19 Figure of the drawings which should accompany the abstract IX-20 Language of filing of the international application X-1 Signature of applicant, agent or common representative		Accompanying Items	paper document(s) attached	electronic file(s) attached
IX-17 PCT-SAFE physical media – IX-18 other GB PF23/77 IX-19 Figure of the drawings which should accompany the abstract IX-20 Language of filing of the international application X-1 Signature of applicant, agent or common representative	IX-8	Fee calculation sheet	/	-
IX-18 other GB PF23/77 IX-19 Figure of the drawings which should accompany the abstract IX-20 Language of filing of the international application X-1 Signature of applicant, agent or common representative	IX-11	Copy of general power of attorney	1	-
IX-19 Figure of the drawings which should accompany the abstract IX-20 Language of filing of the international application X-1 Signature of applicant, agent or common representative	IX-17	PCT-SAFE physical media		/
accompany the abstract IX-20 Language of filing of the international application X-1 Signature of applicant, agent or common representative	IX-18	other	GB PF23/77	
application X-1 Signature of applicant, agent or common representative	IX-19		1	
common representative	IX-20	application	English	
JENVA LEWIS	X-1		Debra Lewis	
X-1-1 Name (LAST, First) LEWIS, Debra Louise	X-1-1	Name (LAST, First)	LEWIS, Debra Louise	,
X-1-2 Name of signatory	X-1-2	Name of signatory		·
X-1-3 Capacity	X-1-3	Capacity		

'Original (for SUBMISSION)

13-2-3	Validation messages Names	Green? Applicant 1:Street address missing
13-2-7	Validation messages Contents	Green? Reference number for attached copy of general power of attorney not indicated.
13-2-9	Validation messages Payment	Green? Please ensure that you have a valid deposit account with the receiving Office selected.

electromagnetic signal can be assessed. The signal detector receives electromagnetic signals from a single direction in space through a single optical fibre, a signal splitter which splits the collected signal between three optical paths, and a signal compath which combines the portions of the signal transmitted by the three optical paths and transmits the combined signal to a signal detector input. Each of the optical paths includes a respective optical delay designed to delay transmission of any received signal towards the signal detector. In this manner the signal detector will receive any signals that arrived at the optical fibre during three separate periods of time.